



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**QUINCY BU1108090005 - SIGMA TERRAZZO**

Component  
**Compressor**

Fluid  
**QUINCY QUINSYN (--- GAL)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>QUC0000620</b>	QUC0000545	QUC0000581
Sample Date		Client Info		<b>08 May 2024</b>	14 Nov 2023	09 Aug 2023
Machine Age	hrs	Client Info		<b>33</b>	31	30
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>2</b>	2	7
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	2	2
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

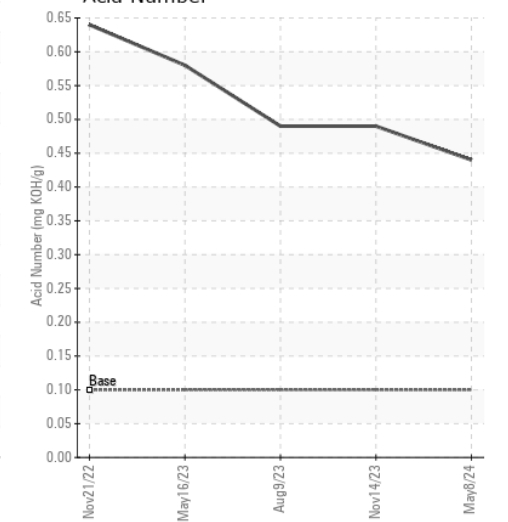
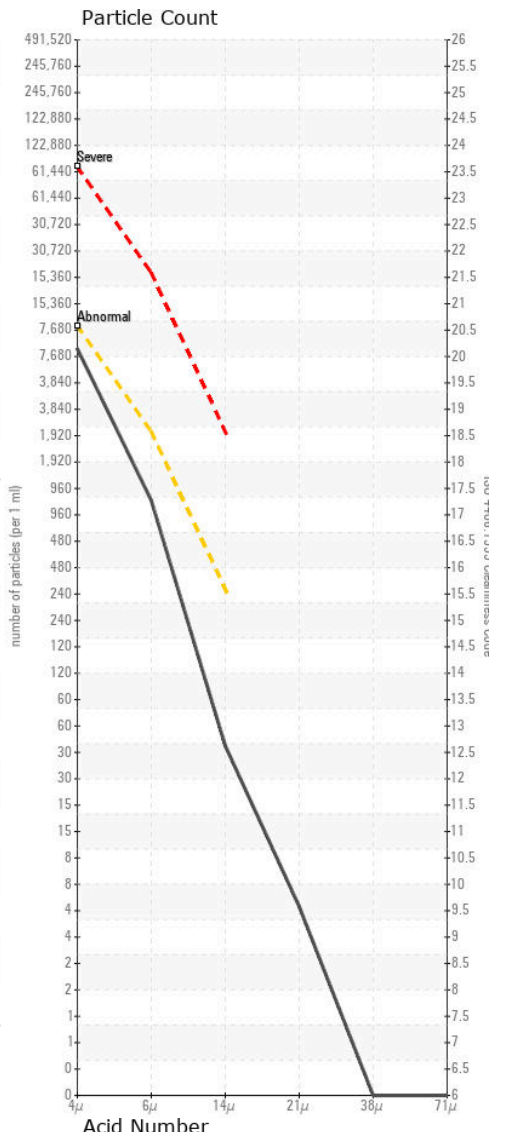
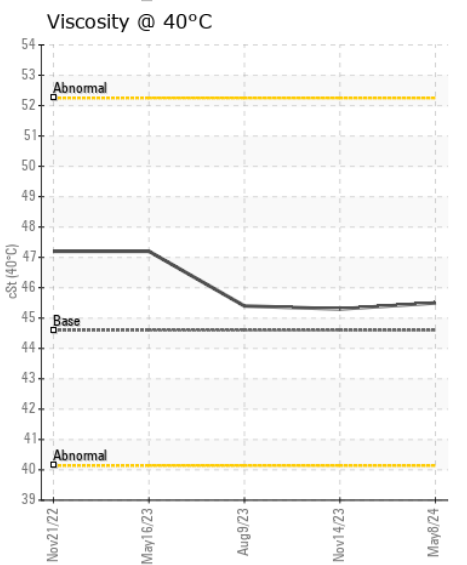
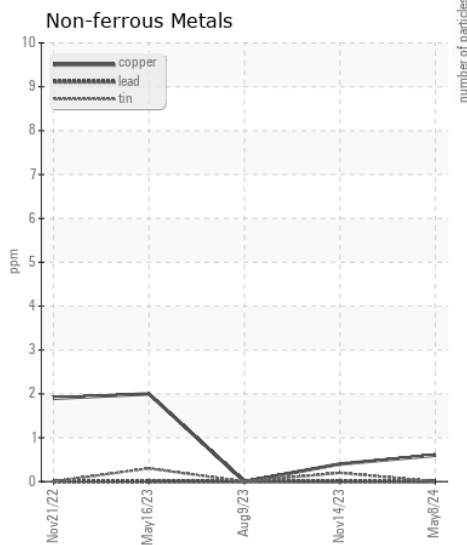
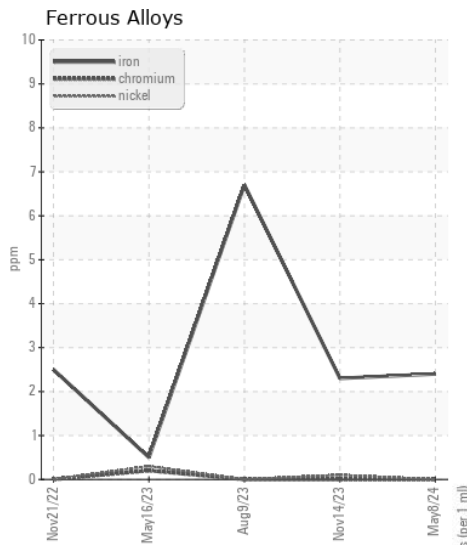
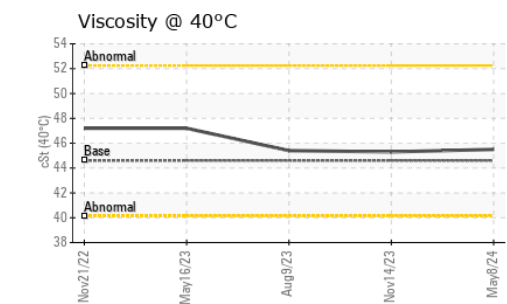
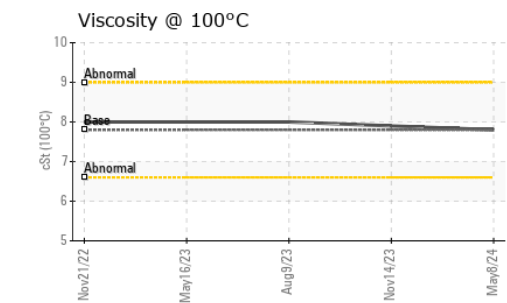
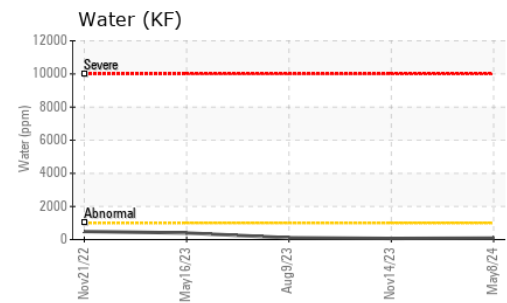
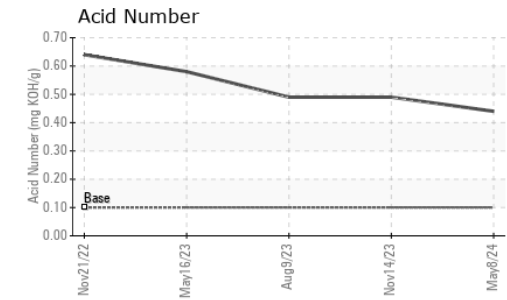
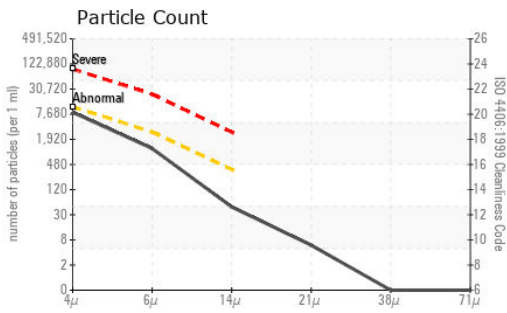
The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	0
Water	%	ASTM D6304	>0.1	<b>0.008</b>	0.006	0.010
ppm Water	ppm	ASTM D6304	>1000	<b>88</b>	68	107.3
Particles >4µm		ASTM D7647	>10000	<b>7411</b>	▲ 46508	▲ 88917
Particles >6µm		ASTM D7647	>2500	<b>1016</b>	▲ 17793	▲ 28167
Particles >14µm		ASTM D7647	>320	<b>41</b>	▲ 2591	▲ 854
Particles >21µm		ASTM D7647	>80	<b>5</b>	▲ 858	▲ 111
Particles >38µm		ASTM D7647	>20	<b>0</b>	▲ 26	1
Particles >71µm		ASTM D7647	>4	<b>0</b>	2	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>20/17/13</b>	▲ 23/21/19	▲ 24/22/17
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>5</b>	5	5
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>1</b>	2	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	<1	2
Calcium	ppm	ASTM D5185m		<b>0</b>	0	3
Phosphorus	ppm	ASTM D5185m		<b>194</b>	215	114
Zinc	ppm	ASTM D5185m		<b>239</b>	245	160
Sulfur	ppm	ASTM D5185m		<b>1279</b>	1361	1650
Acid Number (AN)	mg KOH/g	ASTM D8045	.10	<b>0.44</b>	0.49	0.49
Visc @ 40°C	cSt	ASTM D445	44.6	<b>45.5</b>	45.3	45.4
Visc @ 100°C	cSt	ASTM D445	7.8	<b>7.8</b>	7.9	8
Viscosity Index (VI)	Scale	ASTM D2270	132	<b>141</b>	145	149



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : QUC0000620 **Received** : 14 Jun 2024  
**Lab Number** : 06210134 **Tested** : 18 Jun 2024  
**Unique Number** : 11082998 **Diagnosed** : 18 Jun 2024 - Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

**QUALITY COMPRESSOR**

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